

AN APPARATUS FOR CONNECTION MANAGEMENT
AND THE METHOD THEREFOR

ABSTRACT OF THE DISCLOSURE

5 An apparatus and method for scheduling data distributions to or results
 information from, or collectively, "jobs" to a plurality of data processing systems via
 a network is implemented. A connection to a target system is created. (If a
 nonexclusive connection already exists, it may be used.) For each distribution, a
 session, which is an independent thread, is allocated from one of a plurality of pool of
 sessions and launched to effect execution of the job. Each pool corresponds to a
10 predetermined priority level, and the session is allocated from the pool having the
 same priority level as the priority level of the job being scheduled. A connection
 supports a multiplicity of independent threads. In the event of an error, for example a
 network failure, the session is released, and the scheduling of the aborted job is retried
 after a predetermined connect retry interval expires. After expiry of the retry interval,
15 a callback method is registered and invoked when the target system on which the
 scheduled job is executed becomes accessible. In response, the scheduling procedure
 is repeated for that job.

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